CLAIMS:-1

1. An electric motor comprising a first part and a second part which are movable with respect to each other, wherein the first part comprises a foil-shaped insulating substrate on which a plurality of series-connected spiral-shaped patterns of conductor tracks are provided, each pattern comprising two main sections with substantially straight and parallel conductor tracks having first and second ends and two intermediate sections with conductor tracks which respectively mutually connect the first ends of the two main sections and mutually connect the second ends of the two main sections, said intermediate sections having a center area halfway between the first ends of the two main sections and halfway between the second ends of the two main sections, respectively, and wherein the second part comprises a permanent magnet unit for generating a magnetic field at the location of the conductor tracks, characterized in that the conductor tracks of the intermediate sections are curved, and each of the conductor tracks of the intermediate sections has a width which, seen from the first ends of each main section and from the second ends of each main section, respectively, to the center area of the intermediate section, initially increases and subsequently decreases.

2. An electric motor as claimed in claim 1, characterized in that the conductor tracks of the intermediate sections have a maximum width at a location substantially halfway between the first ends of each main section and the center area of the intermediate section and substantially halfway between the second ends of each main section and the center area of the intermediate section, respectively.

3. An electric motor as claimed in claim 1, characterized in that the conductor tracks of the main sections have a width which decreases in a direction from an inner one of the conductor tracks to an outer one of the conductor tracks.

4. An electric motor as claimed in claim 1, ~~2, or 3,~~ characterized in that the first part and the second part are rotatable with respect to each other about an axis of rotation, the

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substrate being bent as a circular-cylindrical body which is arranged concentrically relative to the axis of rotation.

5. An electric motor as claimed in claim 1, ~~2, or 3~~, characterized in that the first part and the second part are moveable with respect to each other in a linear direction, the substrate being arranged in an imaginary plane extending parallel to said linear direction.

6. A data storage unit comprising a support for at least one information carrier, an electric motor for rotating the support about an axis of rotation, and a scanning unit for scanning the information carrier, characterized in that the electric motor is an electric motor as claimed in claim 4.